

## DEVICE AND METHOD FOR COLLECTING MOLTEN FLY ASH

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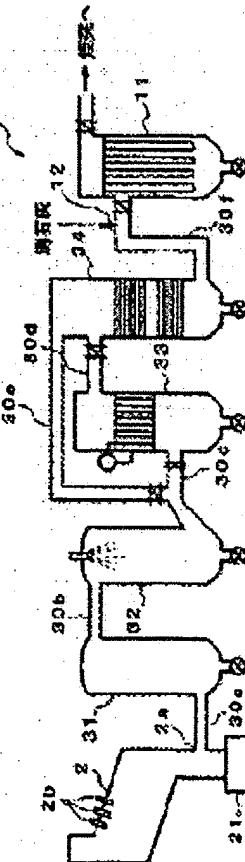
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### Abstract of JP2005034695

PROBLEM TO BE SOLVED: To easily eliminate clogging of a filter cloth through backwashing.

SOLUTION: A molten fly ash collecting device is installed at the position on the downstream side of a line to emit exhaust gas generated in an ash melting furnace 2 into the atmosphere, and provided with a bag filter to collect molten fly ash contained in the exhaust gas. The filtering speed at a filter cloth of the bag filter 11 is set to be 0.4-0.7 m/min.

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ED Entered STN: 03 Mar 2005  
TI Method and device for capturing melting flying ash  
IN Kiribayashi, Toshimitsu; Ozawa, Saburo; Hashimoto, Eijiro; Yamada, Mitsuo;  
Iwami, Tsuneo  
PA Kyowa Exeo Corp., Japan  
SO Jpn. Kokai Tokkyo Koho, 13 pp.  
CODEN: JKXXAF  
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LA Japanese  
IC ICM B01D046-02  
ICS B01D053-50; B01D053-68; B01D053-81  
CC 47-2 (Apparatus and Plant Equipment)  
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CLASS

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AB The method is characterized by being able to eliminate the filter clogging using reversed washing. The fly ash, with an average particle size of 3.5-7.5  $\mu\text{m}$ , from the waste gas of a combustion furnace is removed by using a bag filter. The gas flow rate is controlled at 0.4-0.7 m/min. Slaked lime of 1.5-2 times of the acid gas in the waste gas is added to the gas flow before the bag filter for neutralization.

ST device capturing melting flying ash bag filter reversed washing  
IT Filters  
(bags; capturing melting flying ash from waste gas using

→ teach fly ash  
from a combustion furnace  
has particle size 3.5-7.5  $\mu\text{m}$   
well within applicant's claimed range  
of up to 10  $\mu\text{m}$ .